# Feature Activity 03 Documentation

# Getting setup

```
C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\3-building_images>docker images
REPOSITORY
           TAG
                     IMAGE ID
                                    CREATED
ubuntu
            16.04
                     aefd7f02ae24
                                    3 weeks ago
                                                 134MB
C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\3-building_images>docker ps
CONTAINER ID IMAGE
                       COMMAND CREATED STATUS
                                                   PORTS
                                                              NAMES
:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\3-building_images>docker ps -a
CONTAINER ID IMAGE
                      COMMAND CREATED STATUS
                                                   PORTS
                                                             NAMES
```

### Creating a Dockerfile

### Building the Dockerfile

```
Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\3-building_images>docker build -t "eliezerjasper/ping"
+] Building 0.2s (7/7) FINISHED
Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
 :\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\3-building_images>docker build -t "eliezerjasper/ping"
+] Building 0.1s (7/7) FINISHED

>> [internal] load build definition from Dockerfile

=> => transferring dockerfile: 318
Jse 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
 :\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\3-building_images>docker images
REPOSITORY
                                 IMAGE ID
                                                 CREATED
                      TAG
eliezerjasper/ping
                      latest
                                 fde2daef3c8d
                                                 13 minutes ago
                                                                    169MB
                      16.04
                                 aefd7f02ae24
                                                                     134MB
                                                  3 weeks ago
ubuntu
```

# Optimizing the Dockerfile

eliezerjasper/ping

ubuntu

latest

16.04

44c7940da6b6

aefd7f02ae24

```
Dockerfile M X
  C: > Users > Eliezer Jasper > Documents > GitHub > ME8_Containerization_and_Docker > 3-building_images > 🐡 Dockerfile
         FROM ubuntu:16.04
         LABEL author="Eliezer Jasper"
    2
    4
         RUN apt-get update
         RUN apt-get install -y iputils-ping
         RUN apt-get clean \
              && cd /var/lib/apt/lists && rm -fr *Release* *Sources* *Packages* \
              && truncate -s 0 /var/log/*log
    10
C:\Users\Eliezer Jasper\Documents\GitHub\ME8 Containerization and Docker\3-building images>docker images
REPOSITORY
                               IMAGE ID
                                              CREATED
                     TAG
                                                               SIZE
                                                               169MB
eliezerjasper/ping
                     latest
                               ef5b30eeb96b
                                              15 minutes ago
                     16.04
                               aefd7f02ae24
                                                               134MB
ubuntu
                                              3 weeks ago

    ◆ Dockerfile M X
  C: > Users > Eliezer Jasper > Documents > GitHub > ME8_Containerization_and_Docker > 3-building_images > 🐡 Dockerfile
         FROM ubuntu:16.04
         LABEL author="Eliezer Jasper"
    4 ∨ RUN apt-get update \
              && apt-get install -y iputils-ping \
             && apt-get clean \
              && cd /var/lib/apt/lists && rm -fr *Release* *Sources* *Packages* \
              && truncate -s 0 /var/log/*log
C:\Users\Eliezer Jasper\Documents\GitHub\ME8 Containerization and Docker\3-building images>docker images
REPOSITORY
                               IMAGE ID
                                              CREATED
                                                               SIZE
```

13 minutes ago

3 weeks ago

138MB

134MB

#### Other Dockerfile directives

```
C:\Users\Eliezer Jasper\Documents\GitHub\ME8_Containerization_and_Docker\3-building_images>docker run -it eliezerjasper/ping PING google.com (142.250.204.110) 56(84) bytes of data.

64 bytes from 142.250.204.110: icmp_seq=1 ttl=37 time=32.0 ms

64 bytes from 142.250.204.110: icmp_seq=2 ttl=37 time=33.5 ms

64 bytes from 142.250.204.110: icmp_seq=3 ttl=37 time=31.7 ms

64 bytes from 142.250.204.110: icmp_seq=4 ttl=37 time=32.2 ms

64 bytes from 142.250.204.110: icmp_seq=4 ttl=37 time=32.0 ms

^C

--- google.com ping statistics ---

5 packets transmitted, 5 received, 0% packet loss, time 4008ms

rtt min/avg/max/mdev = 31.769/32.330/33.544/0.634 ms
```